

DACMT Courses

Defence Radar Systems

Course No: 402/009

Aim of Course	Outline of Syllabus	Remarks
<p>The aim of the course is to provide a concise presentation of the principles behind current defence radar systems. The syllabus embodies a foundation of theory and practice, presented against a background of modern defence applications. The course comprises 26 lectures/demonstration periods and 4 tutorial/discussion periods. The theory of radar resolution, detection and measurement is covered in some detail, as are the important operational modes of volume-surveillance and single-target precision tracking.</p>	<p>Electromagnetic and RF aspects addressed include:</p> <ul style="list-style-type: none"> • Phased-array Antennas • Propagation and scattering of Radar Transmissions • Clutter characteristics across the Microwave and Millimetric Wavebands <p>Other important and/or topical sub-system elements are included as appropriate.</p> <p>The final part of the course concentrates on specific topics, eg millimetric-wave systems, radiometry, synthetic aperture radar and radar EW.</p>	<p>Capacity is 25 personnel.</p>

Rank Range	Entry Standards	Duration	Qualifications gained	Frequency
	None specified	5 days		1 course per year

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